

Page 1

=> s 11 full
FULL SEARCH INITIATED 15:32:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 125668 TO ITERATE

100.0% PROCESSED 125668 ITERATIONS 936 ANSWERS
SEARCH TIME: 00.00.01

L3 936 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
170.00 170.21

FILE 'CAPLUS' ENTERED AT 15:32:15 ON 30 JUL 2004
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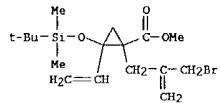
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FILE COVERS 1907 - 30 Jul 2004 VOL 141 ISS 6
FILE LAST UPDATED: 29 Jul 2004 (20040729/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 13
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L3 ANSWER 1 OF 936 REGISTRY COPYRIGHT 2004 ACS on STN
RN 717127-28-1 REGISTRY
CN Cyclopropanecarboxylic acid, 1-[2-(bromomethyl)-2-propenyl]-2-[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-ethenyl-, methyl ester (9CI) (CA
INDEX
NAME)
MF C17 H29 Br O3 Si
SR CA



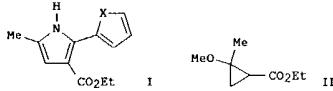
Page 3

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=> s 13
L4          260 L3

=> s 14 and pyrrol?
      128218 PYRROL?
L5          13 L4 AND PYRROL?

=> d 15 ibib abs hitstr 1-13
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L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2004:141810 CAPLUS
 DOCUMENT NUMBER: 140:339152
 TITLE: Synthesis of 2,2'-bipyrroles and
 2,2'-thienylpyrroles
 2-cyanothiopholes from donor-acceptor cyclopropanes and
 AUTHOR(S): Yu, Ming; Panton, G. Dan; Sessler, Jonathan L.;
 Pagenkopf, Brian L.
 CORPORATE SOURCE: Department of Chemistry and Biochemistry,
 University of Texas at Austin, Austin, TX, 78712, USA
 SOURCE: Organic Letters (2004), 6(6), 1057-1059
 CODEN: ORLETF; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



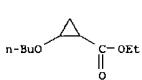
AB Two series of 2,2'-bipyrroles, e.g., I (X = NH), and 2,2'-thienylpyrroles, e.g., I (X = S), have been prepd. by trimethylsilyl trifluoromethanesulfonate-mediated reaction of donor-acceptor cyclopropanes, e.g., II, with 2-cyanothiopholes and 2-cyanothiophene, resp. This method opened the door for synthesis of a wide variety of unsym. bipyrroles and thiénylpyrroles.
 IT 78932-45-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of bipyrrolecarboxylates and thiénylpyrrolecarboxylates via heterocyclization of alkoxycyclopropanecarboxylates with cyanopyrroles or cyanothiophene)
 RN 78932-45-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 n-BuO

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

Chemical structure of a cyclopropane ring with an n-BuO group and a C=OET group.

L5 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:960478 CAPLUS
 DOCUMENT NUMBER: 140:111237
 TITLE: A Powerful New Strategy for Diversity-Oriented Synthesis of Pyrroles from Donor-Acceptor Cyclopropanes and Nitriles
 AUTHOR(S): Yu, Ming; Pagenkopf, Brian L.
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX, 78712, USA
 SOURCE: Organic Letters (2003), 5(26), 5099-5101
 CODEN: ORLETF; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Lewis acid-activated donor-acceptor cyclopropanes react with aliph., arom., and α .. β ..-beta..-unsatd. nitriles in a novel cascade [3 + 2] dipolar cycloaddn., dehydration, and tautomerization sequence to afford pyrroles in moderate to excellent overall yield. This cost-effective and regiospecific method is ideally suited for the prepn. of combinatorial libraries.
 IT 78932-45-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (diversity-oriented synthesis of pyrroles via Lewis acid-activated cycloaddn./dehydration/tautomerization reactions of various donor-acceptor cyclopropanes and nitriles)
 RN 78932-45-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:875173 CAPLUS
 DOCUMENT NUMBER: 139:381511
 TITLE: Pyrrolotriazine aniline compounds useful as kinase inhibitors, particularly p38 kinases, and their preparation, pharmaceutical compositions, and use as antiinflammatory agents

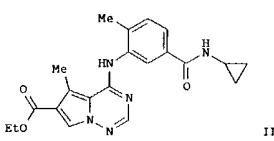
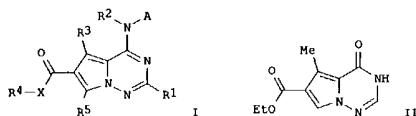
INVENTOR(S): Dyckman, Alaric; Hynes, John; Leftheris, Katherine;
 Liu, Chunjian; Wroblewski, Stephen T.
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: PCT Int. Appl., 158 pp.
 CODEN: PIIXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003090912	A1	20031106	WO 2003-US12426	20030415
WO 2003090912	C2	20040108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004082582 A1 20040429 US 2003-420399 20030422 PRIORITY APPN. INFO.: US 2002-374938 P 20020423 OTHER SOURCE(S): MARPAT 139:381511 GI				

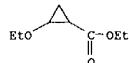
L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



AB Title compds. I and their enantiomers, diastereomers, pharmaceutically acceptable salts, prodrugs, and solvates are useful as p38 kinase inhibitors [wherein: A = certain substituted Ph rings, particularly bearing various carboxamide and sulfonamide substituents; X = O, OCO, S, S(O), SO₂, CO, CO₂, (un)substituted NH, NHCO, NHCO₂, NHSO₂, NHSO₂NH, SO₂NH, or CONH, halo, NO₂, cyano, or bond; R1, R5 = H, (un)substituted alkyl, OH or derivs., SH or derivs., CO₂H or derivs., NH₂ or derivs., halo, NO₂, cyano; R2 = H, alkyl; R3 = H, Me, CF₃, MeO, halo, cyano, NH₂, or NHMe; R4 = H (with provisos), (un)substituted alk(en/yn)yl, (hetero)aryl, (hetero)cycloalkyl, or absent]. Over 300 specific compds. I and various intermediates were prep'd. Compds. I selectively inhibited human p38.α./β. isoenzymes and TNF-α. in vitro (no data). For instance, 3-amino-4-methylbenzoic acid was amidated quant. with cyclopropylamine using EDC and DMAP in DMF. The pyrrolotriazine ester II was then chlorinated at the ring oxo group with POCl₃ (100%). Aminolysis of the resulting chloride with the benzamide product from the first step gave 80% invention compd. III.

IT 5604-58-0

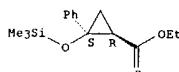
L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate) prepns. of pyrrolotriazine aniline compds. as p38 kinase inhibitors
 RN 5604-58-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester (6CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

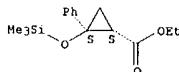
L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:828731 CAPLUS
 DOCUMENT NUMBER: 140:27547
 TITLE: Electronically tuned chiral ruthenium porphyrins: Extremely stable and selective catalysts for asymmetric epoxidation and cyclopropanation
 AUTHOR(S): Berkessel, Albrecht; Kaiser, Patrick; Lex, Johann
 CORPORATE SOURCE: Institut fuer Organische Chemie der Universitaet zu Koeln, Cologne, 50939, Germany
 SOURCE: Chemistry-A European Journal (2003), 9(19), 4746-4756
 CODEN: CEUJD; ISSN: 0947-6539
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:27547
 AB We report the use of three enantiomerically pure and electronically tuned ruthenium carbonyl porphyrin catalysts for the asym. cyclopropanation and epoxidn. of a variety of olefinic substrates. The D4-sym. ligands carry a methoxy, a Me or a trifluoromethyl group at the 10-position of each of the 9-[anti-(1,2,3,4,5,6,7,8-octahydro-1,4:5,8-dimethanoanthracene)]-substituents at the meso-positions of the porphyrin. Introduction of a CF₃-substituent in this remote position resulted in greatly improved catalyst stability, and turnover nos. of up to 7500 were achieved for cyclopropanation, and up to 14200 for epoxidn., with ee values typically >90% and >90% resp. In one example, the axial CO ligand at the ruthenium was exchanged for PF₃, resulting in the first chiral ruthenium porphyrin with a PF₃ ligand reported to date. In cyclopropanations with Et diazoacetate, the latter catalyst performed exceedingly well, and gave a 95% ee in the case of 1,1-diphenylethylene as substrate.
 IT 213618-93-0
 RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
 (prepns. of electronically tuned chiral ruthenium porphyrins as extremely stable and selective catalysts for asym. epoxidn. and cyclopropanation of alkenes)
 RN 213618-93-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 213618-93-0
 RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
 (up to 83% ee; prepns. of electronically tuned chiral ruthenium porphyrins as extremely stable and selective catalysts for asym. epoxidn. and cyclopropanation of alkenes)
 RN 213618-93-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

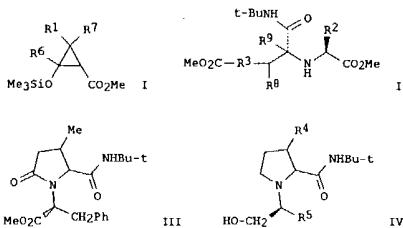


REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

RN 213623-98-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

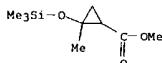
Relative stereochemistry.

LS ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:669412 CAPLUS
 DOCUMENT NUMBER: 136:6308
 TITLE: Siloxycyclopropanes in Ugi four-component
 reaction: a new method for the synthesis of highly
 substituted pyrrolidinone derivatives
 AUTHOR(S): Zimmer, Reinhold; Zimmer, Antje; Gruner, Margit;
 Brudgam, Irene; Hartl, Hans; Reissig, Hans-Ulrich
 CORPORATE SOURCE: Institut für Chemie - Organische Chemie, Freie
 Universität Berlin, Berlin, 14195, Germany
 SOURCE: Synthesis (2001), (11), 1649-1658
 CODEN: SYNTBF; ISSN: 0039-7881
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:6308
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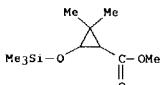


AB Reaction of Me trimethylsiloxy cyclopropane carboxylates I (R1 = H, Me; R6, R7 = H, Me) with amino acids, tert-butylnitrile and methanol furnished amino diacid derivs. II [R2 = Bn, CH2indolyl, Me, CHMeEt, R3 = CH2, (CH2)2; R8 = H, Me; R9 = H, Me] as the result of an Ugi 5-center 4-component reaction. This one-pot reaction involves β -formyl esters such as MeOCOCH2CH(Me)COH as intermediate, which are liberated in situ. Adducts II could be thermally cyclized to provide γ -lactams in good

LS ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 cyclization yields. The multi component reaction was combined with this process to a fairly efficient one-pot procedure. Thus, cyclopropane deriv. I (R1 = H) was converted into γ , γ -lactam III in good yield. Two of the γ , γ -lactams were reduced with lithium aluminum hydride to give pyrrolidinone derivs. IV (R4 = R5 = Me; R4 = H, R5 = Bn). Based on an X-ray anal. of the major diastereomer of compd. IV (R4 = H, R5 = Bn), the diastereoselectivity of the 4-component reaction is discussed.
 IT 77903-43-6 77903-45-8 82884-40-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (one-pot synthesis of pyrrolidinone derivs. by Ugi reaction and cyclization from siloxycyclopropanes, amino acids, tert-butylnitrile and methanol)
 RN 77903-43-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

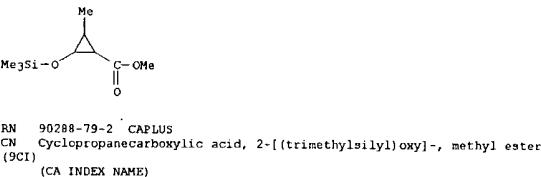


RN 77903-45-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



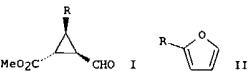
RN 82884-40-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

LS ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



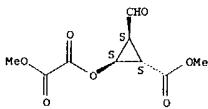
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 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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LS ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:609622 CAPLUS
 DOCUMENT NUMBER: 133:309693
 TITLE: A new strategy for the stereoselective synthesis
 of 1,2,3-trisubstituted cyclopropanes
 AUTHOR(S): Chistian;
 Zabel, Manfred; Labahn, Thomas; Parisini, Emilio;
 Reiser, Oliver
 CORPORATE SOURCE: Institut für Organische Chemie Universitat
 Regensburg, Regensburg, 93053, Germany
 SOURCE: European Journal of Organic Chemistry (2000), (16), 2955-2965
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:309693
 GI



AB The stereoselective synthesis of highly functionalized 1,2,3-trisubstituted cyclopropanes I (R = CHO, OCOCO2Me), starting from readily available furans II (R = H, CO2Me) or N-Boc protected pyrrole, is described. Furthermore, exceptionally high diastereocontrol in agreement with the Felkin-Anh model was obse. for the addn. of nucleophiles to the title compds.
 IT 302349-67-3P
 RL: RPP (Properties); RCT (Reactant); SPN (Synthetic preparation);
 PREP (Preparation); RACT (Reactant or reagent)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)
 RN 302349-67-3 CAPLUS
 CN Ethylidene acid, (1R,2R,3R)-2-formyl-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

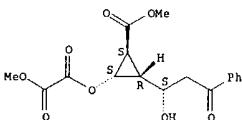
Relative stereochemistry.



IT 302349-68-4
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-68-4 CAPLUS
 CN Ethanedioic acid, (1R,2R,3S)-2-[(1R)-1-hydroxy-3-oxo-3-phenylpropyl]cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 302349-69-5P 302349-70-8P 302349-71-9P

302349-72-0P 302349-73-1P 302349-81-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-69-5 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-oxobutyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

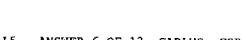


IT 302349-69-5P 302349-70-8P 302349-71-9P

302349-72-0P 302349-73-1P 302349-81-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-69-5 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-oxobutyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

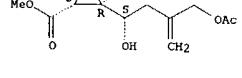


IT 302349-69-5P 302349-70-8P 302349-71-9P

302349-72-0P 302349-73-1P 302349-81-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-69-5 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-oxobutyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

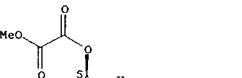
Relative stereochemistry.



RN 302349-73-1 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-cyanohydroxymethyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

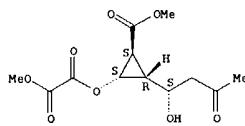
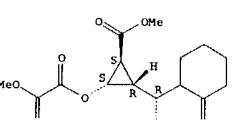
Relative stereochemistry.



RN 302349-81-1 CAPLUS

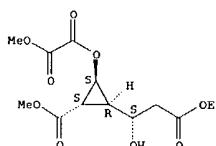
CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-hydroxy(2-oxocyclohexyl)methyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



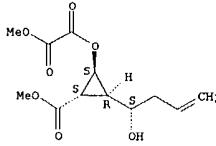
RN 302349-70-8 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-3-ethoxy-1-hydroxy-3-oxopropyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



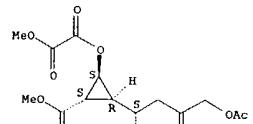
RN 302349-71-9 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-butenyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 302349-72-0 CAPLUS
 CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-3-[(acetyloxy)methyl]-1-hydroxy-3-butenyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

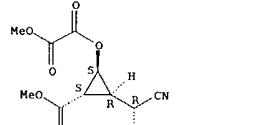
Relative stereochemistry.



RN 302349-73-1 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-cyanohydroxymethyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

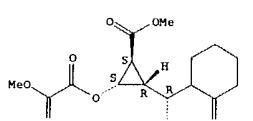
Relative stereochemistry.



RN 302349-81-1 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-hydroxy(2-oxocyclohexyl)methyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

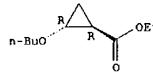
Relative stereochemistry.



L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:97387 CAPLUS
 DOCUMENT NUMBER: 132:278929
 TITLE: Cyclopropanation of alkenes, N-H and S-H
 insertion of ethyl diazoacetate catalyzed by ruthenium
 porphyrin complexes
 AUTHOR(S): Galardon, Erwan; Le Maux, Paul; Simonneaux, Gerard
 CORPORATE SOURCE: Laboratoire de Chimie Organométallique et Biologique, UMR 6509, Université de Rennes 1, Rennes, 35042, Fr.
 SOURCE: Tetrahedron (2000), 56(4), 615-621
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 132:278929
 AB Product yields, stereoselectivities and regioselectivities for cyclopropanation reactions of Et diazoacetate with styrene derivs. and α -heteroatom alkenes, catalyzed by ruthenium porphyrins, are reported and compared with obd. stereoselectivities for cyclopropanation reactions catalyzed with other metallocporphyrin catalysts. Linear correlations are obd. when the rates for competitive cyclopropanation or product stereoisomer ratio are plotted against Hammett consts. of various ring-substituted groups on styrenes. Isomeric distribution for the cyclopropanation of isoprene and 1,3-pentadiene with Et diazoacetate and competition studies of the cyclopropanation and diazo insertion into heteroatom-hydrogen bonds are also reported. All these results agree with a major electronic and steric influence on both the regiochem. and stereochem. control in the catalytic cyclopropanation and diazo insertion reactions.
 IT 109491-16-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 109491-16-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester, (1R,2R)-rel- (9CI)
 (CA INDEX NAME)

Relative stereochemistry.

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

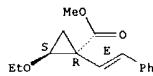


REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:26987 CAPLUS
 DOCUMENT NUMBER: 124:231554
 TITLE: Asymmetric reactions catalyzed by chiral metal complexes LX. Steric and electronic effects of substrates and rhodium chiral catalysts in asymmetric cyclopropanation
 AUTHOR(S): Yoshikawa, Kiyoshi; Achiwa, Kazuo
 CORPORATE SOURCE: School Pharmaceutical Sciences, Univ. Shizuoka, Shizuoka, 422, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1995), 43(12), 2048-53
 CODEN: CPBTAL; ISSN: 0009-2363
 PUBLISHER: Pharmaceutical Society of Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:231554
 AB We have prepd. several new, efficient, chiral N-acyl pyrrolidin-2-yl carboxylic acid ligands for dirhodium-catalyzed asym. cyclopropanation and found that the steric and electronic effects of the rhodium(II) complexes and substrates influenced the enantioselectivity and catalytic activity. These electron-rich catalysts were shown to be efficient for asym. cyclopropanation using 1-chloro-1-fluoroethylene as a substrate.
 IT 174588-87-5 174588-88-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (steric and electronic effects of substrates and rhodium complex chiral catalysts in asym. cyclopropanation)
 RN 174588-87-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-1-[(1E)-2-phenylethynyl]-, methyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

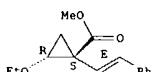
Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



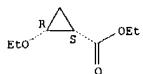
RN 174588-88-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-1-(2-phenylethynyl)-, methyl ester, [1R-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.



L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1992:407531 CAPLUS
 DOCUMENT NUMBER: 117:7531
 TITLE: Asymmetric cyclopropanation of alkenes catalyzed
 by a rhodium chiral fortress porphyrin
 AUTHOR(S): O'Malley, Sean; Kodadek, Thomas
 CORPORATE SOURCE: Dep. Chem. Biochem., Univ. Texas, Austin, TX, 78712, USA
 SOURCE: Organometallics (1992), 11(6), 2299-302
 CODEN: ORGND7; ISSN: 0276-7333
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis and catalytic cyclopropanation activity of a new porphyrin known as the chiral fortress macrocycle is reported. This mol. has optically pure naphthyl-pyrenyl groups appended directly to the meso carbons of the porphyrin. The iodorhodium deriv. is a catalyst for the cyclopropanation of alkenes by Et diazoacetate. The syn cyclopropyl esters are the major product in each case examp. except one. In some cases very high diastereoselectivity is obvd. The enantiomeric excess resulting from chiral fortress-mediated reactions are modest.
 IT 141269-61-6P 141269-62-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of)
 RN 141269-61-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester, (1S-cis)- (9CI)
 (CA INDEX NAME)

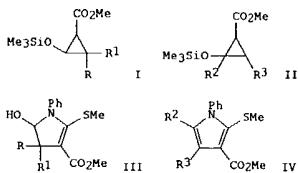
Absolute stereochemistry.



RN 141269-62-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester, (1R-trans)- (9CI)
 (CA INDEX NAME)

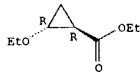
Absolute stereochemistry.

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1988:221539 CAPLUS
 DOCUMENT NUMBER: 108:221539
 TITLE: A novel synthesis of pyrrole derivatives
 AUTHOR(S): Brueckner, Christiane; Suchland, Brigitte; Reisinger, Hans Ulrich
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Wuerzburg, Wuerzburg, D-9700, Fed. Rep. Ger.
 SOURCE: Liebigs Annalen der Chemie (1988), (5), 471-3
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 108:221539
 GI



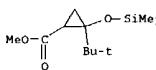
AB Enolates generated from Me 2-siloxycyclopropanecarboxylates I [R = R1 = (CH2)5] and II [R2R3 = (CH2)3, (CH2)4; R2 = CMe3, R3 = H] react with PhNCS-MeI to give Me 4,5-dihydro-1H-pyrrolecarboxylates III (same R, R1) after desilylation or pyrrole derivs. IV (same R2, R3) after treatment with CF3CO2H, resp. For the key ring enlargement an anionic 1,3-sigmatropic rearrangement is suggested. Several subsequent reactions of III (R = R1 = Me) are described.
 IT 113568-50-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prep. and desilylation of)
 RN 113568-50-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-1-[(trimethylsilyl)(phenylimino)methyl]-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

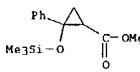


L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

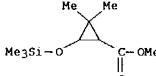
IT 77903-42-5 77903-44-7 77903-45-8
 77982-78-6 79646-62-1 82884-41-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring enlargement of, with Ph isothiocyanate-Me iodide, pyrrole deriv. from)
 RN 77903-42-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(1,1-dimethylethyl)-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 77903-44-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

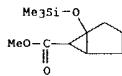


RN 77903-45-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

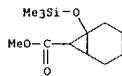


RN 77982-78-6 CAPLUS
 CN Bicyclo[3.1.0]hexane-6-carboxylic acid, 1-[(trimethylsilyl)oxy]-, methyl

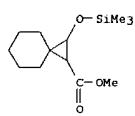
L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 79646-62-1 CAPLUS
 CN Bicyclo[4.1.0]heptane-7-carboxylic acid, 1-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 82884-41-1 CAPLUS
 CN Spiro[2.5]octane-1-carboxylic acid, 2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1981:121308 CAPLUS
 DOCUMENT NUMBER: 94:121308
 TITLE: Benzylpyrrolomethyl esters of cyclopropane carboxylic acids

INVENTOR(S): Henick, Clive A.
 PATENT ASSIGNEE(S): Zoecor Corp., USA
 SOURCE: U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 942,509.

CODEN: USXXAM

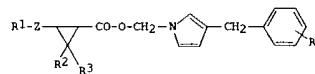
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

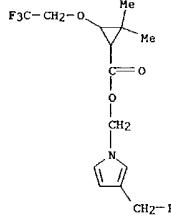
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4229352	A	19801021	US 1979-66263	19790813
US 4198527	A	19800415	US 1978-942509	19780915
PRIORITY APPLN. INFO.:			US 1978-942509	19780915
GI				



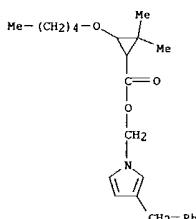
AB Pesticides (no data), benzylpyrrolomethyl cyclopropanecarboxylates I
 (R = H, F, Br, Cl, CF₃, Me, MeO, MeS; R1 = lower alkyl, lower haloalkyl, lower alkenyl, lower haloalkenyl, substituted phenyl; R2 = lower alkyl, halo; R3 = H, lower alkyl, halo; Z = O, S) were prepd. by the reaction of the acid chloride and alc. in an org. solvent over a basic catalyst or the reaction of the acid and the benzyl halide deriv. in an org. solvent in the presence of a base. Thus, 3-(4-chlorophenoxy)-2,2-dimethylcyclopropanecarboxylic acid was treated with SO₂Cl₂ and the acid chloride was treated with 3-benzylpyrrolomethyl alc. in the presence of 4-(dimethylamino)pyridine in C₆H₆ at 25.degree. for 18 h to give I (R = H, R1 = 4-ClC₆H₄, R2 = R3 = Me, Z = O).
 IT 76827-16-2P 76827-17-3P 76827-18-4P
 76827-19-5P

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of)

RN 76827-16-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trifluoroethoxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

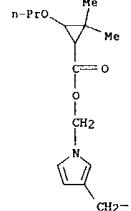


RN 76827-17-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

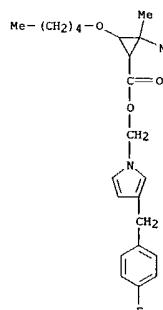


RN 76827-18-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propoxy-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

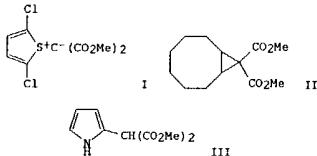
L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 76827-19-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-(4-fluorophenyl)methyl]-1H-pyrrol-1-yl)methyl ester (9CI) (CA INDEX NAME)

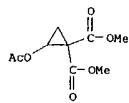


L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1979:71981 CAPLUS
 DOCUMENT NUMBER: 90:71981
 TITLE: 2,5-Dichlorothiophenium
 bis(methoxycarbonylmethylidene) a
 bis(methoxycarbonylcarbene equivalent
 AUTHOR(S): Cuffe, John; Gillespie, Roger J.; Porter, Alexander E.
 A.
 CORPORATE SOURCE: Chem. Dep., Univ. Stirling, Stirling, UK
 SOURCE: Journal of the Chemical Society, Chemical Communications (1978), (15), 641-2
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

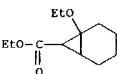


AB Refluxing the title compd. (I) with alkenes gave 60-86% cyclopropanated products. E.g., cyclooctene gave 86% bicyclonane II. With pyrrole and AcOH, the products were 73% pyrrole III and 98.5% AcOCH(CO2Me)2, resp.
 IT 68940-76-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 68940-76-1 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-(acetoxy)-, dimethyl ester
 (9CI)
 (CA INDEX NAME)

L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L5 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1974:47730 CAPLUS
 DOCUMENT NUMBER: 80:47730
 TITLE: γ -Keto acid derivatives
 AUTHOR(S): Wenkert, Ernest; McPherson, C. Allen; Sanchez, E. L.; Webb, R. L.
 CORPORATE SOURCE: Dep. Chem., Indiana Univ., Bloomington, IN, USA
 SOURCE: Synthetic Communications (1973), 3(4), 255-9
 CODEN: SYNCAV; ISSN: 0039-7911
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 80:47730
 GI For diagram(s), see printed CA Issue.
 AB 1-Ethoxycyclohexene was treated with N2CH2CO2Et and N2CH2COMe contg. copper bronze to give the bicycloheptane I (R = CO2Et, Ac, resp.), which with concd. HCl gave 2-(carbethoxymethyl)cyclohexanone and 2-acetyl(cyclohexanone, resp. Me2CHC(=O) was treated with pyrrolidine, enamine and N2CH2CO2Et contg. CuCl to give the cyclopropane-carboxylate II, which was hydrolyzed to give N2CH2CO2Et and 3-pentanone morpholine enamine contg. CuCl gave EtCOCH(Me)2CO2Et. The diester III and 3% HCl gave the dilactone IV.
 IT 50891-52-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 50891-52-6 CAPLUS
 CN Bicyclo[4.1.0]heptane-7-carboxylic acid, 1-ethoxy-, ethyl ester
 (9CI)
 (CA INDEX NAME)



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L3 936 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:32:15 ON 30 JUL 2004

FILE 'REGISTRY' ENTERED AT 15:32:33 ON 30 JUL 2004

FILE 'CAPLUS' ENTERED AT 15:32:33 ON 30 JUL 2004
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L5 13 S L4 AND PYRROL?

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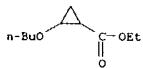
128218 PYRROL?

82056 NITRIL?

L6 1 L4 AND PYRROL? AND NITRIL?

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L6 ANSWER 1 OF 1 CAPIUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:960478 CAPIUS
DOCUMENT NUMBER: 140:111237
TITLE: A Powerful New Strategy for Diversity-Oriented
Synthesis of **Pyrroles** from Donor-Acceptor
Cyclopropanes and **Nitriles**
AUTHOR(S): Yu, Ming; Pagenkopf, Brian L.
CORPORATE SOURCE: Department of Chemistry and Biochemistry, The
University of Texas at Austin, Austin, TX,
78712, USA
SOURCE: Organic Letters (2003), 5(26), 5099-5101
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Lewis acid-activated donor-acceptor cyclopropanes react with alph.,
arom., and .alpha.,.beta.-unsatd. **nitriles** in a novel cascade [3
+ 2] dipolar cycloaddn., dehydration, and tautomerization sequence to
afford **pyrroles** in moderate to excellent overall yield. This
cost-effective and regiospecific method is ideally suited for the
prepn.
of combinatorial libraries.
IT 78932-45-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(diversity-oriented synthesis of **pyrroles** via Lewis
acid-activated cycloaddn./dehydration/tautomerization reactions of
various donor-acceptor cyclopropanes and **nitriles**)
RN 78932-45-3 CAPIUS
CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX
NAME)

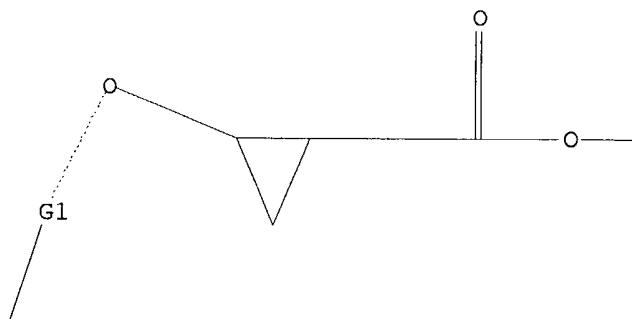


REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

Page 14

=>

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L1 STR



G1 C, Si

Structure attributes must be viewed using STN Express query preparation.

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Executing the logoff script...

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	78.46	251.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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STN INTERNATIONAL LOGOFF AT 15:36:12 ON 30 JUL 2004